# Required Components

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| Picture of adapter components. The three stereo switch jacks are labelled number 1. The four lengths of wire are labelled 2. The one 3d printed enclosure top is labelled 4. The one 3d printed bottom enclosure is labelled 4.  4  3  2  1 | **BOM**   1. Three Stereo Jacks 2. Four 3 cm Wires 3. 3D Printed Bottom 4. 3D Printed Top |

# Required Tools

* Soldering Iron
* Solder
* Wire strippers
* Flush cutters

# Required Personal Protective Equipment (PPE)

* Safety Glasses

# Assembly Instructions

## Step 1

Place the stereo Jacks in the bottom enclosure with their prongs facing outward. Ensure each jack is facing the correct direction, so the outlet lines up with the holes.

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| Diagram of enclosure bottom with three jacks place inside. The jacks are protruding through the case and the solder leads are oriented upwards. |

## Step 2

Solder the wires into place according to the black wires shown in the image. Trim any excess wire with flush cutters.

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| Diagram of adapter wiring. The view is oriented looking down towards the bottom enclosure. The single output jack is oriented to the top and the two input jacks are oriented towards the bottom. Each jack has 5 leads. Connection 1: the bottom most lead on the left input jack connects to the top lead on the center output jack. Connect 2: On the left input jack, the second lead from the bottom is connected to the second lead from the top on the center output jack. Connection 3: On the right input jack, the bottom most lead is connected to the top lead on the center output jack. Connection 4: On the right input jack, the second-from-the-bottom lead is connected to the second-from-the bottom lead on the center output jack |

## Step 3

Snap the top enclosure onto the bottom enclosure. Ensure the holes line up with the jack outlets.

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| Diagram of enclosure assembly. On the top enclosure, the input side has two semi-circular notches for the input jacks. The top part of the enclosure is pushed down on to the bottom enclosure. |